LISTING OF THE CLAIMS

Claims 1-48 are pending in the instant application.

Listing of claims:

(Previously presented) A method for producing a secure key, the

method comprising:

receiving at least a first input key, a second input key and a third input key;

and

generating a first output key based on said at least said first input key, said

second input key and said third input key, wherein said first output key is unique

and differs from said at least said first input key, and said third input key is a key

variation comprising a device identity.

2. (Previously presented) The method according to claim 1, wherein

said first input key is a customer key, and said second input key is a customer key

selection.

3. (Previously presented) The method according to claim 1, comprising:

determining whether said first output key is at least one of a unique key and

differs from said at least said first input key; and

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if said first output key is at least one of a non-unique key and is equivalent to said at least said first input key, generating a second output key based on a modified one of at least one of said first input key, said second input key and said third input key.

- 4. (Previously presented) The method according to claim 3, comprising determining whether said second output key is at least one of a unique key and differs from said at least said modified one of at least one of said first input key, said second input key and said third input key.
- (Original) The method according to claim 4, wherein said first output key and said second output key are not weak or semi-weak keys.
- (Previously presented) The method according to claim 1, comprising mapping said at least said first input key, said second input key and said third input key to generate mapped output key data.
- (Previously presented) The method according to claim 6, comprising generating an intermediate key based on said first input key.

key.

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8. (Previously presented) The method according to claim 7, comprising scrambling said generated intermediate key and said generated mapped output key data to create a scrambled output.

9 (Previously presented) The method according to claim 8, comprising: masking at least a portion of said generated mapped output key data; and exclusive ORing said masked at least said portion of said generated mapped output key data and said scrambled output to generate said first output

- 10. (Previously presented) The method according to claim 1, comprising transferring said generated first output key to an encryption engine that utilizes said generated first output key to encrypt information.
- 11. (Previously presented) A machine-readable storage having stored thereon, a computer program having at least one code section for producing a secure key, the at least one code section being executable by a machine for causing the machine to perform steps comprising:

receiving at least a first input key, a second input key and a third input key; and

generating a first output key based on said at least said first input key, said second input key and said third input key, wherein said first output key is unique and differs from said at least said first input key, and said third input key is a key variation comprising a device identity.

- 12. (Previously presented) The machine-readable storage according to claim 11, wherein said first input key is a customer key, and said second input key is a customer key selection.
- 13. (Previously presented) The machine-readable storage according to claim 11, wherein said at least one code section comprises:

code for determining whether said first output key is at least one of a unique key and differs from said at least said first input key; and

code for generating a second output key based on a modified one of at least one of said first input key, said second input key and said third input key if said first output key is at least one of a non-unique key and is equivalent to said at least said first input key.

14. (Previously presented) The machine-readable storage according to claim 13, wherein said at least one code section comprises code for determining whether said second output key is at least one of a unique key and differs from Reply to Office Action of April 22, 2008

said at least said modified one of at least one of said first input key, said second input key and said third input key.

15. (Original) The machine-readable storage according to claim 14,

wherein said first output key and said second output key are not weak or semi-

weak keys.

16. (Previously presented) The machine-readable storage according to

claim 11, wherein said at least one code section comprises code for mapping said

at least said first input key, said second input key and said third input key to

generate mapped output key data.

17. (Previously presented) The machine-readable storage according to

claim 16, wherein said at least one code section comprises code for generating an

intermediate key based on said first input key.

18. (Previously presented) The machine-readable storage according to

claim 17, wherein said at least one code section comprises code for scrambling

said generated intermediate key and said generated mapped output key data to

create a scrambled output.

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19. (Previously presented) The machine-readable storage according to claim 18, wherein said at least one code section comprises:

code for masking at least a portion of said generated mapped output key data; and

code for exclusive ORing said masked at least said portion of said generated mapped output key data and said scrambled output to generate said first output key.

- 20. (Previously presented) The machine-readable storage according to claim 11, wherein said at least one code section comprises code for transferring said generated first output key to an encryption engine that utilizes said generated first output key to encrypt information.
- (Previously presented) A system for producing a secure key, the system comprising:

a secure key generator that receives at least a first input key, a second input key and a third input key; and

said secure key generator generates a first output key based on said at least said first input key, said second input key and said third input key, wherein said first output key is unique and differs from said at least said first input key, and said third input key is a key variation comprising a device identity.

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22. (Previously presented) The system according to claim 21, wherein

said first input key is a customer key, and said second input key is a customer key

selection.

23. (Previously presented) The system according to claim 21, wherein

said secure key generator:

determines whether said first output key is at least one of a unique key and

differs from said at least said first input key; and

generates a second output key based on a modified one of at least one of

said first input key, said second input key and said third input key, if said first

output key is at least one of a non-unique key and is equivalent to said at least

said first input key.

24. (Previously presented) The system according to claim 23, wherein

said secure key generator determines whether said second output key is at least

one of a unique key and differs from said at least said modified one of at least one

of said first input key, said second input key and said third input key.

25. (Original) The system according to claim 24, wherein said first output

key and said second output key are not weak or semi-weak keys.

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26. (Previously presented) The system according to claim 21, comprising a mapper that maps said at least said first input key, said second input key and

said third input key to generate mapped output key data.

27. (Previously presented) The system according to claim 26, comprising

a key generator that generates an intermediate key based on said first input key.

28. (Previously presented) The system according to claim 27, comprising

a scrambler that scrambles said generated intermediate key and said generated

mapped output key data to create a scrambled output.

29. (Previously presented) The system according to claim 28,

comprising:

a masker that masks at least a portion of said generated mapped output

key data; and

an exclusive OR operator that exclusive ORs said masked at least said

portion of said generated mapped output key data and said scrambled output to

generate said first output key.

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30. (Original) The system according to claim 21, wherein said secure key generator transfers said generated first output key to an encryption engine that utilizes said generated first output key to encrypt information.

31. (Original) A system for producing a secure key, the system comprising:

a mapper;

a scrambler coupled to said mapper;

a masker coupled to said mapper;

a key generator coupled to said scrambler; and

an XOR operator coupled to said masker and said scrambler.

 (Previously presented) The system according to claim 31, comprising at least one processor coupled to an output of said XOR operator.

- 33. (Previously presented) The system according to claim 32, comprising an encryption engine that is coupled to an output of said XOR operator.
- 34. (Previously presented) The system according to claim 33, comprising a memory coupled to at least one of said encryption engine and said at least one processor.

35. (Previously presented) A system for producing a secure key, the system comprising:

one or more circuits enabled to:

receive at least a first input key, a second input key and a third input key at a secure key generator; and

generate at said secure key generator a first output key based on said at least said first input key, said second input key and said third input key, wherein said first output key is unique and differs from said at least said first input key, and wherein said third input key is a key variation comprising a device identity.

- (Previously presented) The system according to claim 35, wherein said first input key is a customer key, and said second input key is a customer key.
- 37. (Previously presented) The system according to claim 35, wherein said one or more circuits:

determine whether said first output key is at least one of a unique key and differs from said at least said first input key; and

generate a second output key based on a modified one of at least one of said first input key, said second input key and said third input key, if said first

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output key is at least one of a non-unique key and is equivalent to said at least

said first input key.

38. (Previously presented) The system according to claim 37, wherein

said one or more circuits determine whether said second output key is at least one

of a unique key and differs from said at least said modified one of at least one of

said first input key, said second input key and said third input key.

39. (Previously presented) The system according to claim 38, wherein

said first output key and said second output key are not weak or semi-weak keys.

40. (Previously presented) The system according to claim 35, wherein

said one or more circuits comprise a mapper that maps said at least said first input

key, said second input key and said third input key to generate mapped output key

data.

41. (Previously presented) The system according to claim 40, wherein

said one or more circuits comprise a key generator that generates an intermediate

key based on said first input key.

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42. (Previously presented) The system according to claim 41, wherein

said one or more circuits comprise a scrambler that scrambles said generated

intermediate key and said generated mapped output key data to create a

scrambled output.

43. (Previously presented) The system according to claim 42, wherein

said one or more circuits comprise:

a masker that masks at least a portion of said generated mapped output

key data; and

an exclusive OR operator that exclusive ORs said masked at least said

portion of said generated mapped output key data and said scrambled output to

generate said first output key.

44. (Previously presented) The system according to claim 35, wherein

said one or more circuits transfer said generated first output key to an encryption

engine that utilizes said generated first output key to encrypt information.

45. (Previously presented) A system for producing a secure key, the

system comprising one or more circuits, said one or more circuits enabled to

operate as:

a mapper;

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a scrambler coupled to said mapper;

a masker coupled to said mapper;

a key generator coupled to said scrambler; and

an XOR operator coupled to said masker and said scrambler.

46. (Previously presented) The system according to claim 45, wherein said one or more circuits comprise at least one processor coupled to an output of said XOR operator.

- 47. (Previously presented) The system according to claim 46, wherein said one or more circuits comprise an encryption engine that is coupled to an output of said XOR operator.
- 48. (Previously presented) The system according to claim 47, wherein said one or more circuits comprise a memory coupled to at least one of said encryption engine and said at least one processor.